Lucarotin® 10 CWD/O

Chemical names of active ingredient
Beta-carotene, provitamin A

CAS-No. 7235-40-7
EINECS-No. 230-636-6

PRD-No. 30218536*

* The product is kosher.

Article
52338653 20 kg bag in box

Country of origin
Germany

Description
Fine, free-flowing, brown-red powder with a mild characteristic odor.

Composition
Ingredients in descending order of weight:
modified food starch, glucose syrup, beta-carotene, medium-chain triglycerides, DL-alpha-tocopherol, tricalcium phosphate.

Solubility
The product can be scattered into stirred cold water (CWD = cold-water dispersible), to obtain a fine dispersion with an orange-yellow color (O = orange).

Specification
Assay min. 10%


Monographs
The active ingredient complies with the current “Beta-carotene” Ph. Eur. and “β-Carotene” FCC monographs, as well as the purity requirements of Directive 2008/128/EC (E160 a).

Regulations
Beta-carotene is approved for use as a food colorant and as a provitamin A source in most countries. However, specific regulations on the ingredients used in the respective countries and for the intended use have to be observed.

Bulk density
0.40 – 0.55 g/ml

Stability
The product is stabilized with DL-α-tocopherol (E307). Stored in its unopened original packaging at room temperature (max. 25 °C), it is stable for at least 24 months.

Storage/Handling
The product is sensitive to oxygen, light, heat, and moisture. It should therefore be stored in the tightly sealed, lightproof packaging in a cool place. Once opened, it is recommended to use the remaining contents as quickly as possible.
Applications

Food products:
One of the advantages of Lucarotin 10 CWD/O is its excellent dispersibility in cold water, thereby saving time and energy otherwise required for heating the product. The powder disperses very readily at room temperature in aqueous media to form a fine dispersion of beta-carotene particles. The powder can either be added directly during the production process or added slowly to 20 – 100 times its weight of water. Stock dispersions are prepared by slowly scattering the product into stirred water in the required proportions. They should always be prepared for immediate use only.

Lucarotin 10 CWD/O is particularly suitable for use as a colorant in fruit juices, fruit beverages, lemonades, and other products based on fruit juice concentrates, which may also contain ascorbic acid.

In addition, it can be used as a colorant in instant-drink powders, confectionery, candied fruits, biscuits, chewing gum, ice cream, custard powder, soup powders, milk shakes, fermented milk products, pasta, cheese, etc., as long as the use of beta-carotene as a colorant in any of these products is not forbidden by law.

Due to its excellent dispersibility in cold media, the product is suitable for use in vitamin mixtures for the fortification of foods with provitamin A.

Note
Lucarotin 10 CWD/O must be handled in accordance with the Safety Data Sheet.